



THE JACG NEWSLETTER

JACG

THE JERSEY ATARI COMPUTER GROUP

VOLUME 12 NUMBER 2

APRIL 1992

FROM THE EDITOR'S DESK

Ahhh... Nostalgia time. It's about all a lot of us Atari 8-bitters have left these days. My particular bout of nostalgia was invoked by President Ed Salvesen telling me how the JACG had reopened lines of communication via the exchange newsletter program with my old user group in Buffalo, N.Y., the Western New York Atari Users Group.

The history and times of WNYAUG I'm sure mirror the life and times of the JACG. We started small, about 10 Atari enthusiasts meeting in a small computer store not much bigger than the size of my current living room. Like the JACG, WNYAUG experienced exponential growth in size and power as Atari's fortunes expanded in its glory days.

I'm very proud of what that group accomplished in its heyday, our proudest moment being the first group in the United States to obtain TURBO BASIC for the 8-bits. We had many other firsts and proud accomplishments in our time: An exclusive interview with Tom Hudson of ANALOG, getting two of the first STs released to the public and publishing the first newsletter programs for the ST, getting Batteries Included to come down from Toronto to demo, organizing an AtariFest that had ATARI and 60 groups and companies show up. (I still have tape of me on the evening news!)

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Unfortunately, now the WNYAUG is having its times of shrinking membership just like JACG. Neither group will ever see those glory days again but both can be very proud of what they did for ATARI users in their days as much as they can proud of what they still do today for their smaller audiences. Long live Atari user groups!

CALENDAR OF EVENTS

Next Meeting:

May 9th, 1992, 10:00 AM to Noon

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GENERAL FEATURE

'PREZ'ING MATTERS *by Ed Salvesen, JACG*

I have reconnoitered some of the addresses given in February's AtariUser with the idea to establish a JACG relationship with more NJ retailers. Some of what I found is, frankly, negative.

To begin with, John Dean indicated that the Newton address is no longer in business. The two addresses at 897 US Rte. 130 are one and the same place. However, on both occasions that I went there, the place was closed. This was weekday afternoons between 2:00 and 3:00. There were two addresses in Matawan. One (6 Ammar Dr.) was a PRIVATE RESIDENCE! Caveat Emptor! I did not attempt contact. The other place is an operating business at the corner of Rte. 34 & Main St. and is now known as Compuware (not Software Spectrum). It has ATARI ST, PC, and Commodore software as well as Atari hardware. They may start advertising in this newsletter, come next month. Stay tuned.

We have been in contact with a Mr. George Richardson of the MERLIN GROUP who just happens to live in Kearny, about 1 mile from my house! We may see a demo by him, next month. He attended last week's Toronto Atarifest (AEP) and I'm looking forward to hear his comments along that line.

The club has ordered a new 9600 baud modem on a special package deal and we'll be getting the old one (2400 baud) fixed to resell or auction, most likely, at the July meeting.

I'm soon going to possess several dozen old newsletters, mostly from the late 80's. When I get them, they'll be put out on the freebie table from which anyone may partake.

I MUST GET VOLUNTEERS or there

will be no Safari, come June! Bill Bingham and myself are the only two definites, as I write this. I expect one or more of our 'regulars' will bring the total to the minimum four that I require or there'll be no June 1992 Safari. Come on, bail us out, here!

Till next month...

16 - BIT FEATURE

THE JACG ST VP's COLUMN *by John H. Dean, JACG 16-bit VP*

Thank you, Dan Bair, for your excellent demonstration at the March meeting of the JACG ST disk library catalog. As you pointed out, this listing can be a valuable tool for finding the exact program you need.

Almost anyone who has spent any time with the search utility in the text reader supplied on the disk, along with the three files sorted by disk number, alphabetically by name, and by category has found more than s/he started out looking for.

For instance, at the March meeting, someone asked me about GDOS, and I thought I would use it as a subject for this month's article. (See GDOS, ATARI and *you* in this month's issue).

Some GOOD NEWS! Joe Roborecky told me about a man he had meet at the WAACE show last October at the David Small booth, and gave me his name and 'phone number, which was a New Jersey number. His name is George Richardson, and I finally tracked him down, to find that he operates as The Merlin Group, and lives in Kearny. He has worked on the accelerator board for the Atari 16 bit, and will tell us all about it at our MAY 9 meeting. He will also report to us about all the goodies he will be seeing at the Atari Canadian Exposition on April 4th & 5th at Toronto's Skyline Hotel.

Please make an extra effort to come to to hear this 'Star Attraction'. We want to have a good turnout to welcome George to our midst, and I'm sure we will all learn from him. BRING A FRIEND with you!

8 - BIT FEATURE

2 BITS FROM 8-BIT VP

by Joseph E. Hicswa - JACG 8-bit VP

Hi! If you own and use an ATARI 8-bit Computer, I LOVE YA! I love the others too but I'm partial to our 8-bit.

It was a good feeling and encouraging to see so many 8-bit members at our March meeting. We thank you, your guests and new members.

New Members remind me of my fledgling years with Jersey Atari Computer Group. A 1200XL manual was no help for Basic Language Programing. I floundered. I bought books - the wrong kind. Early utilities just confused me. At meetings I did not know how or what to ask. Compared to high tech problems being solved, mine seemed trite and juvenile like "Everybody knows that....". I was not like everybody so I "did not know that...!". I've come a long way to understand and appreciate ATARI 8-bits. I still have a long way to go; constantly hungering for knowledge and support.

It is so easy to neglect the others, the new generations entering the ATARI WORLD, who need and hunger for what we older members have acquired. Others shared with us; it's our obligation to share with the new ones.

Want-ads provide telephone numbers of former (ATARI) owners. Newsletters were sent to anyone wishing to learn about JERSEY ATARI COMPUTER GROUP. Have you been checking want ads for ATARI sellers? Do you have telephone numbers

for me?

Results of a Home Computer Market Poll Survey were shown at Las Vegas COMDEX last fall: 25% of all American homes have computers. Over 20% of those polled plan to buy a computer within 2 years - about 21 MEGA customers - 5 MEG will upgrade; 15 MEG will be first time buyers.

Reasons for buying were:

- Education for children & adults
- Earn money with a home business
- Take work home to better chances of promotion, raises and retain job during roll backs.
- Amusement

Those people should have support of a User Group. Spread the word: JERSEY ATARI COMPUTER GROUP.

AIM (ATARI INTERFACE MAGAZINE) is a dedicated ATARI publication touted by user groups whose members receive an AIM subscription for their dues.

As a member of JERSEY ATARI COMPUTER SOCIETY in Clementon, NJ I receive their newsletter "BETWEEN BYTES" and a subscription to AIM. Dues for Jersey Atari Computer Society (JACS) is \$27 a year. (AIM supscription w/o membership is \$18 for one year). My dues supports a user group and an ATARI magazine.

Any member who wishes to support JACS and/or subscribe to AIM may write to:

JACS BOX 710 CLEMENTON, N.J. 08021

AIM - Unicorn Publications
3487 Braeburn Circle
Ann Arbor, MI. 48108

AIM provides ATARI CLASSIC (8-BIT) DISKS available through a support club or via mail order: \$6 Specify 8-bit disk for month and year.

Their March '92 double sided disk has 11 arc files. One, "The Challenge"

by Paul Alhart contains tricks and traps of hacking as you try to discover the "secret hidden message" AH! HAAAA! Members of one computer club hacked 4 months before someone found it.

I would like to tell you more about 8-bit articles in ATARI magazines but as a retiree on a limited, a very limited income I cannot afford subscriptions to all ATARI publications. If you share your ATARI mags with me when you are finished, I will let 8-bit members know about articles. They might subscribe also. Bring ATARI magAzine to next meeting. Also invite a guest.

I've started an 8-bit survey to learn which word processing programs our readers use. Do you support? Do you know it well enough to do a demo?

On 19 cents postal card (one for each program used) write the program name; indicate if you WILL/WILL NOT demo; include a comment, your name, address and phone number. Deadline is June meeting. Mail to JOSEPH E. HICSWA (address on rear cover).

Librarian Sam Cory recommended to me the 8-bit program Chroma Cad 3D by Marver Seaman and distributed through Palette Imaging Inc, Closter, N.J. Mr. Seaman was invited to do a demo at one of our meetings. He is unable to do but did send a copy of his program for someone to demo. Arrangements are being made; details in next article.

Megabyte computers and drives might be spoiling programmers. Too much memory like too much money is squandered, wasted, unused.

Can you imagine some of today's programs being being abridged to run on a 48k computer? Back when computers had 8k programmers had to shrink and shrink. They made a memory address do two or more tasks. Working with limited memory requires it be used to ultimate advantage. Too much memory tends to make some programers prolix.

(Get out the dictionary).

Has anybody written a shorty program of one screen length or less for the 8-bit? Let me know about it so we can arrange for a demo and have it printed in our newsletter.

A nice thing about LISTing the Basic Language Programs is they do not erase programs in memory. They only replace old lines with the same line number. Thus, the first module (part) of a LISTed program could contain arrays, variables for initialization. After initializing it then loads the next section which contains identical line numbers of the first part. A short program requires less memory and will run faster. If you have a way to utilize LISTed programs, share it with us in a demo or article.

We had two outstanding 8-bit demos at our March meeting: A German/American language DEMO of Blitzed ATARI graphics debuted at EXPO '91; also SPACE DISKS #44 & 45 which display mind-blowing graphics and sound.

Bill Bingham of Westwood, N.J. hopped through several EXPO files with show the marvels of ATARI 8-BIT graphics. He got this PD from HOMEBASE BBS of BAKERSFIELD, CALIFORNIA and donated a copy to our club library. It will be available to members at a later date. THANK YOU MR. WILLIAM (BILL) BINGHAM.

A few SPACE disk programs were demo'd by Joseph Hicswa. The 8-bit graphics are great attractions for political rallies, parties and get-togethers. You and your ATARI system will become popular party hosts. (AN opportunity for enterprizing members to start an ATARI entertainment business). One SPACE file, THE MUSICIAN, enables non-musicians to compose music. With no musical training my song was well received by the audience.

SPACE DISKS 44 & 45 are available from our club librarian at meetings. They may also be ordered through the mail (\$6 dollars a disk) from Librarian Sam Cory (address on rear cover).

Many donated 8-bit door prizes were awarded to members who attended, did a demo or wrote a newsletter article. There was even a free/free box.

The annual TRENTON COMPUTER FESTIVAL has an ATARI USER GROUP FORUM. To get on their mailing list for next year, send a 19 cents postal card to:

MERCER COUNTY COMMUNITY COLLEGE
TRENTON COMPUTER FESTIVAL
1200 OLD TRENTON ROAD
WEST WINDSOR, N.J. 08690

OR TCF92 Suite 161
54 Concordia Center
Cranbury, N.J. 08512
(609) 655-4999
(609) 655-4898

Fair dates this year: APRIL 11 & 12

A free seminar for OBJECT-ORIENTED SOFTWARE DEVELOPMENT is offered by RATIONAL, 3320 Scott Boulevard, Santa Clara, CA. 95054-9825 [1-(408)-496-3700] They will be in Iselin, N.J. April 21; in New York April 22 and in Washington D.C. on May 28.

Enjoy your 8-bits until we meet again in May to learn how we can enjoy them an eight bit more.

GENERAL FEATURE

DIETING AWAY STRESS A/F **by Ed Salvesen, JACG**

Dieting always seems to increase stress, so when a diet comes along which decreases stress, it's worth a look-see!

The following diet has never been a PROVEN help, but it WILL reduce stress, if followed:

BREAKFAST: 1/2 Grapefruit 1
Slice Whole Wheat Toast (no butter) 8
oz. Skim Milk

LUNCH: 4 oz. Lean Boiled Breast of
Chicken 1 Cup Spinach (no creaming)
1 Cup Herb Tea 1 Oreo Cookie

MID-AFTERNOON SNACK: The rest of
the pack of the Oreos! 2 pints Vanilla
Fudge or Rum Raisin with Hot Fudge
sauce and choice (or combo of) Nuts,
Cherries and/or Whipped Cream

DINNER: 2 Garlic Bread Loaves 1
Extra Large Sausage & Pepperoni Pizza
with extra Cheese a Six-pack (or 2
qts.) of your favorite LITE beer (this
IS a diet, right?) 3 packs of Reese's

LATE NITE SNACK: 1 Whole
Strawberry Shortcake or Banana Cream
Pie (or, 1 of each!)

SPECIAL CONSIDERATIONS

If you're out with someone and they eat more than you, then your calories don't count.

If you wash down a candy bar with diet soda, that 'washes' away any of the calories.

If you eat something with your eyes closed and no one else sees it either, then there are NO calories in it.

Broken off pieces of cookies have no calories. (They leak away during breakage.)

During preparation, food licked off knives & spoons have no calories. (Ex. peanut butter from the knife or ice cream from the scoop, but don't eat any that falls into the bowl!)

Movie related foods (like Milk Duds, Junior Mints, Buttered Popcorn,

etc.) don't count when eaten AT the movie theater. (They're part of the price of going to the movies.)

Similar foods have similar calories. (Ex. 1 piece of cheese & a piece of Cheesecake.)

Have at least two 'green' foods daily, such as lettuce & spinach or creme de menthe & pistachio.

What does this have to do with ATARI computers? Simple! Don't spill anything into your ATARI!

8 - BIT FEATURE

8 - BIT PD LIBRARIAN'S REPORT

by Sam Cory, JACG 8-bit PD Librarian

Sparta Dos/Textpro has some problems just like you and I. I got caught by one of those things. JACG #110, 111, 112 are AMS music disks we received from SPACE. Try them, I know you will like the music, and want more. I went in to read the directories. None of these disks showed a single file. WOW! here I had issued three disks and NO ONE HAD TOLD ME THE FRONT WAS EMPTY. Not even formatted.

Because Sam can do these stupid things, I immediately went into DEFCON mode 2, called my good friend Alex Pignato of Ol Hackers who sent some AMS Players. Bill Garmany sent his copies of these disks. Guess what! I could not see anything on those disks. I now know my computer combination does not allow me to read Dos 2.5 formatted disks. Maybe that is why I do not like Dos 2.5. Thank goodness most 8-bit library disks must be in Dos 2.0s. The files and directories are there on all the disks. DEFCON aborted.

Kris Holtegaard constructed a file which makes most frequencies available as tones from your TV or monitor. (On the REAR of DOM JACG#247D TESTTONE.BAS). I was thus able to test

my hearing, something I have needed to do for some time. Young persons should be able to hear in the high teen frequencies, some even into the early 20,000 cycles. As you get older the fine cilia receptors become deteriorated and lost due to their response to those high frequencies. Imagine those hairs vibrating to 17,000 or 12,000 cycles a second. As good as our body repair processes might be, they can never keep up with the deafening din now assulting our ears from almost any sound source to which we are exposed.

I had wondered if my hearing problems lately developed might show up in a frequency response test. I now had it in my hands with these results. My left ear is insensitive to frequencies above 8,000, and the right above 8,500. Do not try to sell me a piece of HI-FI equipment. Luckily, I am still above the normal frequencies of the telephone, 300-3,000 cycles/sec. As for now, anyone who claims they can hear more over the phone are just kidding themselves, maybe you too. In a very few short years they will be right. We are rapidly approaching the point where a computer like device will be our: Telephone; TV; Cable; Baby monitor; Computer; the New digital CD ROM recorder (\$5,000), and player: etc. All of this will be at very high digital frequencies well beyond anyones hearing.

Imagine talking to your wife/husband in Paris in real time. The chance of someone seeing you in full size naked will be probable. Future driven people will make random, or directed obscene calls (as now) with the idea of showing you explicit sexual live scenes. No PG Ratings possible. Of course, you will be supplied with many security devices required by the government. You know as well as I, there will be many hacker attempts to contravene the system. Think what a virus will do to that system? Kill your phone system, thus not being able to contact the police or fire department. What a developing market

with scads of jobs. All this in less than 10 years.

Notice I am less and less supplying you with any Dos, or Dup on our DOMs. Main reason is space, and by now you must know how to load files from Dos or the READY prompt.

Gosh Sam! what about our DOM, JACG#247D. I refuse to tell all because there is just too much material. These are files given to me by John McGowan. Excepting for the one Kris file ALL refer to DD3. Be warned you will find Docs and no files, and visa versa. For this information you will have to buy next months DOM.(JACG#248D sneaky aren't I) John has made a very large contribution to DD3. One file on this disk is: PSTODD3B.BAS. As the name indicates it allows converting Print Shop Icons to DD3 format. Notice this is the "B" version already an improvement in just several months over his PSTODD3.BAS. There a large number of MAC files of his devising. I am amazed at what can be done with MAC procedures. Even if you do not use much with MACs, there is an eye opening education in these files. By the way, if you devise any MAC let us have it.

Late news. Federal Testing of HDTV systems are delayed by another time of at least 6mo. Maybe, just maybe we will have HDTV in 5 years. There are new techniques which claim a resolution of 2,000 lines. WOW!!

16 - BIT FEATURE

GDOS, ATARI and YOU

by John H. Dean. JACG ST VP

When I was asked "What is GDOS or G+PLUS ?", I gave a hurried answer that it was used by Timeworks Desktop Publisher to handle screen and printer fonts. The question came about from my article in last month's Newsletter "Nobody knows the trouble I've seen..." when I wrote about the trouble I had been having with ASSIGN.SYS files.

Probably the first step in knowing what GDOS does is knowing that GDOS is an acronym for Graphic Device Operating System. When GDOS.PRG is run from the Auto folder on boot-up it latches onto GEM and performs as though it were part of the operating system. It then looks in the root directory for ASSIGN.SYS and follows the paths set up (in ASCII format) like following a road map.

G+PLUS is a replacement for GDOS in all its applications with some added features. Among these is the ability to re-load ASSIGN.SYS files from other drives. It also overcomes the "slowdown" that seems to happen when GDOS is present.

But I don't have to tell you about all of this, because full information is available to you in our JACG ST disk library. Using the 'search' mode on the text reader on ST01_268 (new in the library this month) I found 61 references to GDOS. On disk JACGLSEA.217 is the file GDOSHELP which contains a twelve page document "EVERYTHING YOU EVER WANTED TO KNOW ABOUT GDOS (AND MORE)." And if that isn't enough, the 530K file "PRO GEM" written by Tim Oren titled "PROFESSIONAL GEM" will fill you in on all the other stuff you might want to know.

On the ST Library disk JACGL_LIB.161 is the program, and text, ASSASSIN.PRG which will let you write your own ASSIGN.SYS to handle any GDOS fonts. These GDOS fonts can be found on disks .167, .168 and .169, and others on disks .061, and .179. Disk .168 also includes GDOSAMP.PRG. which will let you print out samples of all the fonts you put in the ASSIGN.SYS file with ASSISSIN.

I do hope that you find all this interesting. If you want more, let me know!

Noise from Noyes

- D. B. Noyes, JACG

JACG Raison d'être

Last meeting I was reminded again of one of the reasons that the JACG (and for that matter, any user[s] group) exists, and that is for the mutual edification of its' membership. As all members (and myself in particular!) are neither totally, absolutely nor incontrovertibly ATARI experts; the flow of new (or old and unknown) ATARI related information being surfaced either in our JACG NEWSLETTER or at our monthly meetings, is simply amazing.

Back to the case in point. I mentioned to the membership that I had recently received two mailings from WordPerfect Corporation relative to the fact that WordPerfect 4.1 for the ATARI (incidentally, along with that for the Amiga and the Apple) would no longer be developed or updated. I further mentioned that it was lucky that I had purchased their maintenance upgrade of November 1990, allowing me to have as mature a product as possible (as I intend to continue to use WordPerfect 4.1 for the ATARI as my word processor of choice). John Dean immediately brought up the fact that he (also a WordPerfect for the ATARI owner) upon receiving the same mailings as I, called WordPerfect to ascertain what the latest (and last) upgrade was, and was told that it was April of 1991. Without the forum of our monthly meeting, I probably would never have know this, and as a result, would not have the absolutely latest version of WordPerfect. It was only a matter of days, and an expense of no more than ten or twelve dollars, for me to have an entire, complete (seven disks) updated WordPerfect (which, I am of course, using as I write this column. Thank you John, and thanks to the forum provided by the JACG!

NOT AGAIN !

Rumor has it that a former member and E-Board officer has been throwing knocks our way via another BBS. Well, I for one would never infringe upon one's free

speech rights...although someone's personal BBS may not qualify as a public place, it matters not to me. Truth has a neat way of revealing itself, and our FAITHFUL members, through meetings, NEWSLETTERS, and our BBS, know the real worth of the JACG. So more time spent on this is simply wasteful.

ST DISK LIBRARY

Neat, huh, two articles in one! Four (4) disks this month. Two game, one utility, and a newly updated library listing disk; listing all ST Library disks through #268. Not only with both alpha (file name) and numeric (disk number) listings, but also a listing by type. Included is the latest ASCII VIEW (version 3.75) to read and manipulate the files. All of this work on the library listing disk is the result of the good work of John Dean, ST Vice-President and former ST Disk Librarian. Thank you John (for the second time in this article!).

As for the games...Mutant Caterpillar, Penguin, and Roulette (1.7) on JACGDSDD.269. Bang, Noids, OTR Place, 21, Euchre, 5 of a kind (1.7) and three .ACC (accessories): Flip Flop, Tic-Tac, and PuzSlide on JACGDSDD.270. Names are self explanatory in most cases, however sufficient description will be available at the April meeting...all the more reason to attend!

The utilities include FileTool, Flench, GoGo ST (4.1), JC Label, NeoPic (2.0), and ZeST Format. More complete descriptions will be available at the April meeting. Suffice it to say that the utility disk (JACGDSDD.271) is well worth the price for GoGo ST alone! GoGo ST is an excellent menu/file launching program with a myriad of "bells and whistles". When one adds file tools, a formatter, an updated Neochrome viewer, a labeller, and other utilities...it should be a bargain not to be resisted by any avid ST owner!

...until next month...

...Dave Noyes

	Total	Used	Free	Used	Free
Drive A:	0	0	0	0%	0%
Drive B:	0	0	0	0%	0%
Drive C:	4339712	3552256	787456	82%	18%
Drive D:	6514688	5596160	918528	86%	14%
Drive E:	10863616	4430848	6432768	41%	59%
Drive F:	10862592	6152192	4710400	57%	43%
Drive G:	10602496	1255424	9347072	12%	88%
Drive H:	10602496	644096	9958400	7%	93%
<hr/>					
Totals:	53785600	21630976	32154624	41%	59%
<hr/>					
Drive C:	4339712	2746368	1593344	64%	36%
Drive D:	6514688	4893696	1620992	76%	24%
Drive E:	10863616	3666944	7196672	34%	66%
Drive F:	10862592	4512768	6349824	42%	58%
Drive G:	10602496	1039360	9563136	10%	90%
Drive H:	10602496	565248	10037248	6%	94%
<hr/>					
Totals:	53785600	17424384	36361216	33%	67%
<hr/>					
Drive C:	4339712	2504704	1835008	58%	42%
Drive D:	6514688	4431872	2082816	69%	31%
Drive E:	10863616	2676736	8186880	25%	75%
Drive F:	10862592	3935232	6927360	37%	63%
Drive G:	10602496	741376	9861120	7%	93%
Drive H:	10602496	431104	10171392	5%	95%
<hr/>					
Totals:	53785600	14721024	39064576	28%	72%

Data Diet a mini-ST-review

- D. B. Noyes, JACG

Data Diet, by Double Click Software of Houston, Texas, lists at somewhere around \$75 to \$79 (the operative word is "lists"), however, I bought my copy at our advertiser, Software Spectrum, for \$44.95 (including Gov. Florio!).

Data Diet (also entitled "THE Atari realtime compression program") is touted by Double Click (I'll call them DC from this point on) giving one the ability to "use files the same as always, but have them occupy *much* less disk space!" The "good words" go on to state "that any file over 1K can be dietized...with two compression types...A is fast...B is 10% to 20% better compression. ...Save 65%-80% on word processing documents alone!"

So much for the advertising. First, Data Diet only compresses non-executable files (like text files, .RSC, etc.). It does

this globally (a whole drive, or by files that one selects. To compress executable files, one must use DC Squish (directory by directory, or file by file). The three listings above reflect my success. The first is my drive statistics prior to Dietizing. The second after Dietizing, and the third after Squishing what wasn't Dietized. One caveat, I didn't Squish the files in my AUTO folder, when I first did (I couldn't "boot", and had to "boot" from a floppy and UnSquish the AUTO folder. As you can see, there was meaningful compression at each of the two steps (Dietizing and Squishing) but nothing approaching the 65% to 80% that jumps out from the hype (in all justice, DC does say "word processing documents"), after all who uses a hard disk to primarily store text files! Even with limitations on how much compression takes place on a "normally" loaded drive...I think that you will agree that starting with 59% free of 54 Megs, and ending up with 72% free is still worthwhile, and the software is less expensive than an added drive.

If you've got a hard drive, get Data Diet!

Software Spectrum

386 Somerset Street
North Plainfield, New Jersey
07060

Telephone: (908) 561-8777

Hours: Monday through Saturday
10:00 am to 7:00 pm

closed Sundays

ATARI software and hardware at competitive prices.
Accessories and IBM software and hardware also available.

Many items sale priced - discount to JACG members.

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Discount Rates Available

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JACG NEWSLETTER

JACG Membership Application

Dues, Including Newsletter \$25.00

☐ Renew ☐ New ☐ Former
☐ 8-Bit ☐ ST/Mega

Name: _____

Address: _____

City: _____

State/Country/Zipcode: _____

HomePhoneNumber: _____

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